



FORMERLY WILLOW RUN LABORATORIES, THE UNIVERSITY OF MICHIGAN

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11 June 1973

103300-1-L

National Aeronautics and Space Administration
Johnson Space Center
Principal Investigator Management Office
Houston, Texas 77058

Attention: Mr. Roger D. Hicks/TF6
Contract: NAS9-13283, Study of Recreational Land and Open Space
Using Skylab Imagery, EREP No. 443.
Subject: First Monthly Report for Period 7 May 1973 through 31 May 1973

Dear Sir:

The objective of this project is to investigate and evaluate the use of
S190 and S192 data over Test Site 819522 for study of recreational land and
open space.

Current effort under this project is limited to preliminary planning of
the program to accommodate possible changes in the test site and data collection
schedules resulting from problems with Skylab operation. Project personnel are
prepared to collect ground truth data needed when we receive word that an EREP
pass over the test site will be used to collect S190 and S192 data.

Our requirements concerning the format of the S192 computer-compatible
tapes are the same as those described by Fred Thomson of ERIM in connection
with Contract NAS9-13280 covering a program to develop processing techniques
for Skylab data. A copy of a letter dated 14 May 1973 from Fred Thomson to
Timothy White describing these requirements is attached herewith. In this
letter Fred Thomson indicated that the format described on page 6.0-17 of
PHO-TR543 (Earth Resources Data Format Control Book), Volume I, would be pre-
ferred to the format described on page 6.0-16 of the same document. As soon
as Mr. Thomson receives confirmation that a particular format will be provided
and a sample data product is available, we can begin detailed programming of
the data conversion module. This work will be required for and partially
supported by Contract NAS9-13283.

Submitted by:

I. J. Sattinger
I. J. Sattinger
Principal Investigator

Approved by:

F. J. Thomson for
Richard R. Legault
Director
Infrared & Optics Division

IJS:msj



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INFRARED AND OPTICS DIVISION

14 May 1973

Mr. Timothy White
TF6
Building 17
NASA - Johnson Space Center
Houston, Texas 77058

Dear Tim:

This letter confirms our telephone conversations of 11 and 14 May, at which time we discussed the formats of computer-compatible digital tapes of S-192 data. I called you to determine whether or not the formats described on pages 6.0 - 16 and 6.0 - 17 of PHO-TR543 (Earth Resources Data Format Control Book), volume 1, dated March 1973 were the formats for tape products. You have confirmed that they are.

In looking at these formats, we find that the format on page 6.0 - 17 most closely matches our ERIM digital tape format. It is estimated by our programming staff that it would require a factor of ten less time to write a conversion module from the 6.0 - 17 format to ERIM format than from the 6.0 - 16 format to ERIM format. Further the 6.0 - 17 format conversion program would execute in less time (for a given amount of data) because fewer operations on that data would be required. This accrues because in the 6.0 - 17 format, the data are spectrally interleaved on a point by point basis in similar format to the ERIM and LARSYS formats.

Because working with tapes in 6.0 - 17 format seems to be less costly for us and valuable project funds are thus more and completely focused on analysis rather than tape format conversion, we would like to request that all data sent to ERIM be sent on 7 track, 800 bpi tapes in format 6.0 - 17. Further, we would appreciate receiving sample data products in this format as soon as possible. If these should prove impossible, we would appreciate knowing at the earliest possible moment.

Please be aware that detailed programming of the conversion module cannot be started until a sample data product is available. We are prepared to begin programming the tape conversion module immediately. Delays in the receipt of a sample data product beyond 15 June 1973 may affect performance on those tasks with SL-2 data requirements.

Very truly yours,

A handwritten signature in cursive script that reads 'Fred J. Thomson'.

Frederick J. Thomson
Research Engineer

FJT/dlc

cc: J. Erickson
EREP PI's ✓
R. Lambert